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☐ 1. Document ID: EP 676232 A1

L3: Entry 1 of 2

File: EPAB

Oct 11, 1995

PUB-NO: EP000676232A1

DOCUMENT-IDENTIFIER: EP 676232 A1

TITLE: Spinel catalyst for the reduction of nitrogen oxide emissions.

PUBN-DATE: October 11, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

BARTHE, PHILIPPE

FR

MACAUDIERE, PIERRE

FR

SEGUELONG, THIERRY

FR

ASSIGNEE-INFORMATION:

NAME

COUNTRY

RHONE POULENC CHIMIE

FR

APPL-NO: EP95400727

APPL-DATE: April 3, 1995

PRIORITY-DATA: FR09404158A (April 8, 1994)

INT-CL (IPC): B01 D 53/94; B01 J 23/00

EUR-CL (EPC): B01D053/94; B01J023/00; B01J023/06

ABSTRACT:

The use of a homogeneous catalyst of spinel structure and formula ZnAl_2O_4 or an oxide of spinel structure (normal or inverse) other than ZnAl_2O_4 , for the treatment of exhaust gases with a high O_2 content, is claimed.

Pref. the oxide of spinel structure (normal or inverse) corresp. to the formula:-

AB_2O_4 A = at least one element from gps. IIa, IIb, IIIb, IVb and Vb or any transition element. B = at least one element from gps. IVa, VIa, VIIa, VIIIa, Ib to Vb. Esp., A = Mg, Ti, Mn, Fe, Co, Ni, Cu, Zn, or Sn, and B = Ti, Mn, Cr, Fe, Co, Ni, Cu, Zn, Al, Ga, In, Sn or Sb. More pref, B = Al or Ga.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KVMC

☐ 2. Document ID: DE 69527459 E EP 676232 A1 FR 2718371 A1 AU 9516245 A JP 07284662 A BR 9501501 A CA 2146601 A HU 71068 T CN 1113452 A US 5736114 A MX 9501698 A1 AU 699947 B US 5876681 A JP 3017043 B2 CA 2146601 C EP 676232 B1

L3: Entry 2 of 2

File: DWPI

Aug 29, 2002

DERWENT-ACC-NO: 1995-345946
DERWENT-WEEK: 200264
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TITLE: Catalysts used in the redn. of nitrogen oxide emissions based on spinels -
useful for the treatment of exhaust gases with a high oxygen content from i.c.
engines

INVENTOR: BARTHE, P; MACAUDIERE, P ; SEGUELONG, T

PATENT-ASSIGNEE:

ASSIGNEE	CODE
RHONE-POULENC CHIM	RHON
RHONE POULENC CHIM	RHON
RHODIA CHIM	RHOD
RHONE POULENC IND	RHON

PRIORITY-DATA: 1994FR-0004158 (April 8, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 69527459 E	August 29, 2002		000	B01D053/94
<u>EP 676232 A1</u>	October 11, 1995	F	009	B01D053/94
FR 2718371 A1	October 13, 1995		013	B01J035/00
AU 9516245 A	October 26, 1995		000	B01D053/94
JP 07284662 A	October 31, 1995		008	B01J023/06
BR 9501501 A	November 7, 1995		000	F02M035/02
CA 2146601 A	October 9, 1995	F	000	B01D053/54
HU 71068 T	November 28, 1995		000	B01D053/56
CN 1113452 A	December 20, 1995		000	B01D053/56
US 5736114 A	April 7, 1998		006	C01B021/04
MX 9501698 A1	September 1, 1997		000	B01J023/74
AU 699947 B	December 17, 1998		000	B01D053/94
US 5876681 A	March 2, 1999		000	B01D053/56
JP 3017043 B2	March 6, 2000		007	B01J023/14
CA 2146601 C	November 27, 2001	F	000	B01D053/54
<u>EP 676232 B1</u>	July 24, 2002	F	000	B01D053/94

DESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE AT BE CH DE DK ES
FR GB GR IE IT LI LU NL PT SE

CITED-DOCUMENTS:DE 3727642; EP 210681 ; FR 2146358 ; US 3904553 ; US 4228138 ; US
4274981

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 69527459E	April 3, 1995	1995DE-0627459	
DE 69527459E	April 3, 1995	1995EP-0400727	
DE 69527459E		EP 676232	Based on
EP 676232A1	April 3, 1995	1995EP-0400727	
FR 2718371A1	April 8, 1994	1994FR-0004158	
AU 9516245A	April 3, 1995	1995AU-0016245	
JP 07284662A	April 10, 1995	1995JP-0107832	
BR 9501501A	April 7, 1995	1995BR-0001501	
CA 2146601A	April 7, 1995	1995CA-2146601	
HU 71068T	April 7, 1995	1995HU-0001018	
CN 1113452A	April 8, 1995	1995CN-0104100	
US 5736114A	April 7, 1995	1995US-0418686	
MX 9501698A1	April 6, 1995	1995MX-0001698	
AU 699947B	April 3, 1995	1995AU-0016245	
AU 699947B		AU 9516245	Previous Publ.
US 5876681A	April 7, 1995	1995US-0418686	Div ex
US 5876681A	November 18, 1997	1997US-0972173	
US 5876681A		US 5736114	Div ex
JP 3017043B2	April 10, 1995	1995JP-0107832	
JP 3017043B2		JP 7284662	Previous Publ.
CA 2146601C	April 7, 1995	1995CA-2146601	
EP 676232B1	April 3, 1995	1995EP-0400727	

INT-CL (IPC): B01 D 53/54; B01 D 53/56; B01 D 53/86; B01 D 53/94; B01 D 175:10; B01 J 21/04; B01 J 21/10; B01 J 23/00; B01 J 23/06; B01 J 23/14; B01 J 23/74; B01 J 35/00; B01 J 101/80; C01 B 21/04; F01 N 3/10; F01 N 3/20; F02 M 35/02; B01 J 35/00; B01 J 35/00; B01 J 101:80; B01 J 103:20; B01 J 103:30; B01 J 103:38

ABSTRACTED-PUB-NO: EP 676232A
BASIC-ABSTRACT:

The use of a homogeneous catalyst of spinel structure and formula ZnAl_2O_4 or an oxide of spinel structure (normal or inverse) other than ZnAl_2O_4 , for the treatment of exhaust gases with a high O_2 content, is claimed.

Pref. the oxide of spinel structure (normal or inverse) corresp. to the formula:- AB_2O_4 A = at least one element from gps. IIa, IIb, IIIb, IVb and Vb or any transition element. B = at least one element from gps. IVa, VIa, VIIa, VIIIa, Ib to Vb. Esp., A = Mg, Ti, Mn, Fe, Co, Ni, Cu, Zn, or Sn, and B = Ti, Mn, Cr, Fe, Co, Ni, Cu, Zn, Al, Ga, In, Sn or Sb. More pref, B = Al or Ga.

USE - The catalyst is used in the treatment of exhaust gases from internal combustion engines contg. a high O_2 content, to reduce emission of oxides of nitrogen.

ADVANTAGE - The catalyst is useful in the treatment of exhaust gases from petrol or diesel engines functioning on a 'lean burn' fuel mixt.: the emissions contain 5-15 O_2 which would cause deterioration of a conventional '3 day' catalyst. The catalyst of the invention deals effectively with the redn. of NO_x emissions.

ABSTRACTED-PUB-NO:

EP 676232B
EQUIVALENT-ABSTRACTS:

The use of a homogeneous catalyst of spinel structure and formula ZnAl_2O_4 or an oxide of spinel structure (normal or inverse) other than ZnAl_2O_4 , for the treatment of exhaust gases with a high O_2 content, is claimed.

Pref. the oxide of spinel structure (normal or inverse) corresp. to the formula:-

AB2O4 A = at least one element from gps. IIa, IIb, IIIb, IVb and Vb or any transition element. B = at least one element from gps. IVa, VIa, VIIa, VIIIa, Ib to Vb. Esp., A = Mg, Ti, Mn, Fe, Co, Ni, Cu, Zn, or Sn, and B = Ti, Mn, Cr, Fe, Co, Ni, Cu, Zn, Al, Ga, In, Sn or Sb. More pref, B = Al or Ga.

USE - The catalyst is used in the treatment of exhaust gases from internal combustion engines contg. a high O2 content, to reduce emission of oxides of nitrogen.

ADVANTAGE - The catalyst is useful in the treatment of exhaust gases from petrol or diesel engines functioning on a 'lean burn' fuel mixt.: the emissions contain 5-15 O2 which would cause deterioration of a conventional '3 day' catalyst. The catalyst of the invention deals effectively with the redn. of NOx emissions.

US 5736114A

The use of a homogeneous catalyst of spinel structure and formula $ZnAl_2O_4$ or an oxide of spinel structure (normal or inverse) other than $ZnAl_2O_4$, for the treatment of exhaust gases with a high O2 content, is claimed.

Pref. the oxide of spinel structure (normal or inverse) corresp. to the formula:-
AB2O4 A = at least one element from gps. IIa, IIb, IIIb, IVb and Vb or any transition element. B = at least one element from gps. IVa, VIa, VIIa, VIIIa, Ib to Vb. Esp., A = Mg, Ti, Mn, Fe, Co, Ni, Cu, Zn, or Sn, and B = Ti, Mn, Cr, Fe, Co, Ni, Cu, Zn, Al, Ga, In, Sn or Sb. More pref, B = Al or Ga.

USE - The catalyst is used in the treatment of exhaust gases from internal combustion engines contg. a high O2 content, to reduce emission of oxides of nitrogen.

ADVANTAGE - The catalyst is useful in the treatment of exhaust gases from petrol or diesel engines functioning on a 'lean burn' fuel mixt.: the emissions contain 5-15 O2 which would cause deterioration of a conventional '3 day' catalyst. The catalyst of the invention deals effectively with the redn. of NOx emissions.

US 5876681A

The use of a homogeneous catalyst of spinel structure and formula $ZnAl_2O_4$ or an oxide of spinel structure (normal or inverse) other than $ZnAl_2O_4$, for the treatment of exhaust gases with a high O2 content, is claimed.

Pref. the oxide of spinel structure (normal or inverse) corresp. to the formula:-
AB2O4 A = at least one element from gps. IIa, IIb, IIIb, IVb and Vb or any transition element. B = at least one element from gps. IVa, VIa, VIIa, VIIIa, Ib to Vb. Esp., A = Mg, Ti, Mn, Fe, Co, Ni, Cu, Zn, or Sn, and B = Ti, Mn, Cr, Fe, Co, Ni, Cu, Zn, Al, Ga, In, Sn or Sb. More pref, B = Al or Ga.

USE - The catalyst is used in the treatment of exhaust gases from internal combustion engines contg. a high O2 content, to reduce emission of oxides of nitrogen.

ADVANTAGE - The catalyst is useful in the treatment of exhaust gases from petrol or diesel engines functioning on a 'lean burn' fuel mixt.: the emissions contain 5-15 O2 which would cause deterioration of a conventional '3 day' catalyst. The catalyst of the invention deals effectively with the redn. of NOx emissions.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: CATALYST REDUCE NITROGEN OXIDE EMIT BASED USEFUL TREAT EXHAUST GAS HIGH OXYGEN CONTENT ENGINE

DERWENT-CLASS: E36 H06 J04 Q51 Q53

CPI-CODES: E11-Q02; E31-H01; E31-M; E35; H06-C03B; J04-E04; N01-B; N01-C; N02; N03;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

C108 C307 C520 C730 C800 C801 C802 C803 C804 C807
M411 M750 M903 M904 M910 N163 N441 Q020 Q431 Q436
R013

Specific Compounds

01784X 01901X 01902X

Registry Numbers

1784U 1901U 1902U

Chemical Indexing M3 *02*

Fragmentation Code

A200 A212 A300 A313 A331 A349 A350 A351 A400 A422
A424 A425 A426 A427 A428 A429 A430 A500 A600 A769
A940 C108 C550 C730 C801 C802 C803 C804 C805 C807
M411 M730 M903 M904 N163 Q020 Q421 Q431 Q436

Markush Compounds

199545-A3601-C 199545-A3601-R 199545-A3602-C 199545-A3602-R

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1784U; 1901U ; 1902U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-151987

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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